

NWS FORM E-5
(11-88)
(PRES. BY WSOM E-41)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

WFO Jackson, Mississippi

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

REPORT FOR:

MONTH

YEAR

July

2002

TO: Hydrometeorological Information Center, W/OH2
NOAA / National Weather Service
1325 East West Highway, Room 7230
Silver Spring, MD 20910-3283

SIGNATURE

Alan Gerard, MIC
In Charge of HSA

DATE

August 12th, 2002

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOME-41)

Once again typical summer time weather prevailed over the HSA for the month. Scattered showers and thundershowers were very common, with rainfall amounts highly variable from location to location. North central, central, and south central Mississippi were especially wet where more than half the days in the month had measurable rainfall. Rainfall amounts in the Jackson, MS area were similar to July of 2001. The highest 1 day total rainfall amounts for the month were 4.50 inches at St. Joseph, LA on the 13th and 3.49 inches in the City of Jackson, MS on the 31st. Other 1 days totals: 2.97 inches at Bovina, MS; 2.92 inches at Grenada Dam, MS; 2.90 inches at Hazelhurst, MS.

The Weekly Drought Monitor classified southern and western sections of the HSA as abnormally dry through the first half to three quarters of the month; however, late month rainfall returned most of the HSA to near normal soil moisture conditions. The only exceptions where soil moisture remained below normal were in southeast Arkansas, portions of northeast Louisiana, and portions of east central Mississippi. Rainfall during the month only allowed minor rise over most rivers with moderate rises on the Lower Pearl River due to heavy rainfall in the Jackson, MS area. No flooding occurred at any of the flood forecast points in the HSA during the month.

<u>RIVER BASIN</u>	<u>RAINFALL</u>	<u>DEPARTURE FROM NORMS</u>
Southeast Arkansas (Chicot & Ashley counties)	2.00 to 3.50 inches	Below normal.
Northeast Louisiana (Tensas, Boeuf, Bayou Macon & Lower Ouachita)	3.00 to 6.00 inches northern sections	Slightly below to just above normal.
	7.00 to 10.00 inches central sections	Much above normal.
	3.00 to 5.00 inches southern section	Slightly below to just above normal

<i>Lower Yazoo</i>	<i>2.50 to 5.75 inches</i>	<i>Below normal over northern areas to just above normal over southern areas</i>
<i>Big Black</i>	<i>4.25 to 8.00 inches upper and middle sections.</i> <i>2.50 to 4.00 inches lower sections</i>	<i>Well above normal.</i> <i>Below normal.</i>
<i>Homochitto/ Bayou Pierre</i>	<i>4.75 to 8.75 inches</i>	<i>Above Normal to well above normal.</i>
<i>Pearl (abv Jackson)</i>	<i>4.00 to 7.75 inches</i>	<i>Below normal over upper sections and well above normal over central and lower sections.</i>
<i>Pearl (Blo Jackson)</i>	<i>5.00 to 10.00 inches</i>	<i>Above normal to well above normal.</i>
<i>Pascagoula</i>	<i>5.00 to 9.00 inches over the Leaf basin</i> <i>4.00 to 6.00 inches over the Chickasawhay</i>	<i>Above normal to much above normal.</i> <i>Just Below normal to near normal.</i>

The heaviest rainfall amounts in the HSA for the month were: 10.31 inches at the northeast Louisiana Research Center near St. Joseph, LA; 9.99 inches at Forest, MS; 9.94 inches at Jackson WFO, MS; 8.90 inches at Sumrall, MS; 8.75 inches at Union Church, MS; 8.19 inches at Winona, MS; 8.18 inches at Monticello, MS. Some of the lowest reporting rainfall stations were: 1.95 inches at Dermott, AR; 2.18 inches at Tallulah, LA; 2.45 inches at Bastrop, LA; 2.45 inches at Cleveland, MS; 2.58 inches at Rolling Fork, MS.

Here at the WFO Jackson, the July monthly rainfall was 9.42 inches, which was 4.73 inches Above normal. Ending July 31st, we have had 35.72 inches of thus far this year which is 0.46 inches above normal.

The Mississippi River from Arkansas City, AR to Greenville, MS started the month near normal and ended the month well below seasonal norms. From Vicksburg, MS to Natchez, MS, for the first quarter to the first half of the month, the river was above seasonal norms; however, by the end of the month, river stages were below seasonal normals. The provisional high and low stages for July are listed below:

<i>Location</i>	<i>High Stage(ft)</i>	<i>Date</i>	<i>Low Stage(ft)</i>	<i>Date</i>
<i>Arkansas City, AR</i>	<i>13.95</i>	<i>07/01</i>	<i>5.50</i>	<i>07/31</i>
<i>Greenville, MS</i>	<i>26.85</i>	<i>07/01</i>	<i>16.94</i>	<i>07/31</i>
<i>Vicksburg, MS</i>	<i>23.42</i>	<i>07/01</i>	<i>10.56</i>	<i>07/31</i>
<i>Natchez,MS</i>	<i>32.65</i>	<i>07/01</i>	<i>17.75</i>	<i>07/31</i>

Total Flood Warning products issued: 0

Total Flood Statement products issued: 0

Daily Rainfall Products (RRA'S) issued 31

Daily River Forecast Products (RVS'S) issued 31

Daily River Stage products (RVA'S) issued 31

*Marty V. Pope
Service Hydrologist*

Note: Stage and precipitation data was furnished with cooperation from Mississippi, Louisiana, and Arkansas, N.W.S. Cooperative Observers, United States Geological Survey, United States Army Corps of Engineers and the Pearl River Valley Water Supply District.

*cc: USGS Little Rock District
USGS Ruston District
USCE Mobile District
USCE Vicksburg District
USCE Mississippi Valley Division
USGS Mississippi District
SRH Climate, Weather and Water Division
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Pearl River Valley Water Supply District
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Southern Region Climate Center
Pat Harrison Waterway District*